

To correct this inconsistency, please amend paragraph [0026] as follows:

[0026] Figs. 3A, 3B, and 3C-3D are cross-sectional views of a subpixel provided by the invention, illustrating the relative location of dopant within the pixel, illustrating an electronic shutter “open” state, and illustrating an electronic shutter “closed” state, respectively;

Further to correct this inconsistency, please amend paragraph [0047] as follows:

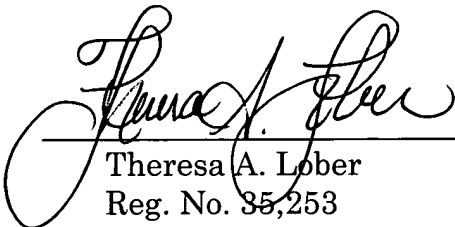
[0047] During operation of the imaging array, after collection of a specified sequence of image frames, the subpixel biases can be adjusted to extend the depletion region of the charge drains of the subpixels for draining of any charge that is further generated or that remains in the substrate, e.g., due to continued illumination of the substrate, or due to incomplete capture of previously photogenerated charge. In this scenario, as shown in Fig. 3B3D, the applied shutter drain voltage,  $V_{SD}$ , is increased above that applied in the “open” shutter mode, to produce shutter drain depletion regions 68 that extend vertically below the p-type buried layer deeper into the bulk of the substrate. Photoelectrons generated in the substrate are attracted to the more positive potential of these shutter drain depletion regions rather than the contracted collection region 66. As shown in Fig. 2A, the shutter drains 62 are connected for draining of this charge from the subpixel location in the substrate. In this control state, the subpixel maintains its fixed store of previously-collected charge and drains any additional charge from the substrate.

The amendment to paragraph 26 provides a listing of Fig. 3D and correspondence between the Figures and Specification. The amendment to paragraph 47 corrects a typographical error to now refer to Fig. 3D and provide further correspondence between the Figures and the Specification.

If the Examiner has any questions or would like to discuss the instant application, he is encouraged to telephone the undersigned Agent at his convenience at the phone number given below.

Respectfully submitted,

Date: May 25, 2006  
T.A. Lober Patent Services  
45 Walden Street  
Concord, MA 01742  
Telephone 978.369.2181  
Facsimile 978.369.7101

  
Theresa A. Lober  
Reg. No. 35,253  
Agent for Applicants  
Customer Number 26247